**Gridview**

**MainActivity.java**

package com.example.gridview2;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.widget.GridView;  
import android.content.Intent;  
import android.view.View;  
import android.widget.AdapterView;  
import android.widget.AdapterView.OnItemClickListener;  
  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 GridView gridview = (GridView) findViewById(R.id.*gridview*);  
 gridview.setAdapter(new ImageAdapter(this));  
  
 gridview.setOnItemClickListener(new OnItemClickListener() {  
 public void onItemClick(AdapterView<?> parent,  
 View v, int position, long id){  
 // Send intent to SingleViewActivity  
 Intent i = new Intent(getApplicationContext(), SingleViewActivity.class);  
 // Pass image index  
 i.putExtra("id", position);  
 startActivity(i);  
 }  
 });  
 }  
}

**SingleViewActivity.java**

package com.example.gridview2;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.content.Intent;  
import android.widget.ImageView;  
  
public class SingleViewActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_single\_view*);  
 // Get intent data  
 Intent i = getIntent();  
  
 // Selected image id  
 int position = i.getExtras().getInt("id");  
 ImageAdapter imageAdapter = new ImageAdapter(this);  
  
 ImageView imageView = (ImageView) findViewById(R.id.*SingleView*);  
 imageView.setImageResource(imageAdapter.mThumbIds[position]);  
 }  
}

**ImageAdapter.java**

package com.example.gridview2;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.content.Context;  
  
import android.view.View;  
import android.view.ViewGroup;  
  
import android.widget.BaseAdapter;  
import android.widget.GridView;  
import android.widget.ImageView;  
  
public class ImageAdapter extends BaseAdapter {  
 private Context mContext;  
  
 // Constructor  
 public ImageAdapter(Context c) {  
 mContext = c;  
 }  
  
 public int getCount() {  
 return mThumbIds.length;  
 }  
  
 public Object getItem(int position) {  
 return null;  
 }  
  
 public long getItemId(int position) {  
 return 0;  
 }  
  
 // create a new ImageView for each item referenced by the Adapter  
 public View getView(int position, View convertView, ViewGroup parent) {  
 ImageView imageView;  
  
 if (convertView == null) {  
 imageView = new ImageView(mContext);  
 imageView.setLayoutParams(new GridView.LayoutParams(85, 85));  
 imageView.setScaleType(ImageView.ScaleType.*CENTER\_CROP*);  
 imageView.setPadding(8, 8, 8, 8);  
 }  
 else  
 {  
 imageView = (ImageView) convertView;  
 }  
 imageView.setImageResource(mThumbIds[position]);  
 return imageView;  
 }  
  
 // Keep all Images in array  
 public Integer[] mThumbIds = {  
 R.drawable.*image1*, R.drawable.*image2*,  
 R.drawable.*image4*, R.drawable.*image5*,  
 R.drawable.*image6*,  
  
 };  
}

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>  
<GridView xmlns:android="http://schemas.android.com/apk/res/android"  
 android:id="@+id/gridview"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="fill\_parent"  
 android:columnWidth="90dp"  
 android:numColumns="auto\_fit"  
 android:verticalSpacing="10dp"  
 android:horizontalSpacing="10dp"  
 android:stretchMode="columnWidth"  
 android:gravity="center" />

**activity\_single\_view.xml**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".SingleViewActivity">  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**activity\_image\_adapter.xml**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".ImageAdapter">  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**Single\_view.xml**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical" >  
  
 <ImageView android:id="@+id/SingleView"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="fill\_parent"/>  
  
</LinearLayout>